



PCT

REC'D 2 6 JUN 2001

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's	or age	ent's file reference			See Notification of Transmittal of International	
00-002-PCT			FOR FURTHER ACTIO	N N	Preliminary Examination Report (Form PCT/IPEA/416)	
International application No.			International filing date (day/r	nonth/ye	Priority date (day/month/year)	
PCT/JP0	144	10/03/2000		15/03/1999		
Internationa C08K5/1		nt Classification (IPC) or n	ational classification and IPC			
Applicant	BPO	RATION et al.				
and is	trans	smitted to the applicant	nination report has been prepactoring to Article 36. f 5 sheets, including this cov		by this International Preliminary Examining Authority eet.	
b (:	een a see R	mended and are the ba	sis for this report and/or she	ets con	description, claims and/or drawings which have ntaining rectifications made before this Authority ns under the PCT).	
171000	- C					
3. This	eport	contains indications rel	ating to the following items:			
1	×	Basis of the report				
II						
111		•	opinion with regard to novelt	, inver	ntive step and industrial applicability	
IV						
V	×		under Article 35(2) with regar ions suporting such stateme		ovelty, inventive step or industrial applicability;	
VI		Certain documents ci	ted			
VII		Certain defects in the	international application			
VIII	VIII Certain observations on the international application					
Date of sub	missio	on of the demand	Da	te of cor	mpletion of this report	
08/09/20	00		22	06.200 ⁻	1	
	Name and mailing address of the international preliminary examining authority:			thorized	d officer	
<u></u>	European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465			ıry, O ephone	e No. +49 89 2399 8313	

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP00/01444

ı.	Bas	sis of the report	
the receiving Office in		receiving Office in re l are not annexed to	ents of the international application (Replacement sheets which have been furnished to esponse to an invitation under Article 14 are referred to in this report as "originally filed" this report since they do not contain amendments (Rules 70.16 and 70.17)):
	1-70	0 :	as originally filed
	Clai	ims, No.:	
	1-14	4 -	as originally filed
2.			uage, all the elements marked above were available or furnished to this Authority in the attendational application was filed, unless otherwise indicated under this item.
	The	se elements were a	vailable or furnished to this Authority in the following language: , which is:
		the language of pul	ranslation furnished for the purposes of the international search (under Rule 23.1(b)). plication of the international application (under Rule 48.3(b)). ranslation furnished for the purposes of international preliminary examination (under Rule
3.		n regard to any nucl	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:
		contained in the int	ernational application in written form.
		filed together with t	he international application in computer readable form.
		furnished subseque	ently to this Authority in written form.
		furnished subseque	ently to this Authority in computer readable form.
			the subsequently furnished written sequence listing does not go beyond the disclosure in plication as filed has been furnished.
		The statement that listing has been fur	the information recorded in computer readable form is identical to the written sequence nished.
4.	The	amendments have	resulted in the cancellation of:
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

5.

This report has been established as if (some of) the amendments had not been made, since they have been

considered to go beyond the disclosure as filed (Rule 70.2(c)):

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/JP00/01444

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N) Yes: Claims N yes: 1-14

No: Claims

Inventive step (IS) Yes: Claims IS yes: 1-14

No: Claims

Industrial applicability (IA) Yes: Claims IA yes: 1-14

No: Claims

2. Citations and explanations see separate sheet

EXAMINATION REPORT - SEPARATE SHEET

C_nc rning Paragraph V

1. Relevant document:

D1: WO-A-99 51 696

D2: EP-A-0 812 878

D3: US-A-5 830 928

D4: US-A-5 464 885

2. Novelty: Art. 33(2) PCT

- 2.1 D1 discloses dispersions of unsaturated polycondensation resin, oil-soluble initiators identical to those of the present application and opt. further ethylenically unsaturated monomers. The acid value of the resin disclosed in the examples is from 15-18 mg KOH/g. However, the initiators are added to the water dispersion for copolymerising ethylenically unsaturated monomers (D1: page 12, lines 1-13). This process is continued until these monomers are completely polymerised, i.e. until the initiators are consumed. D1, thus, does not disclose an aqueous dispersion comprising a polyester containing initiators. The subject matter on file is novel over D1.
- 2.2 D2 deals with heat curable compositions comprising an unsaturated polyester and an organic peroxide initiator according to the file. No water based composition is disclosed. D2 corresponds to the comparative examples on file.
- 2.3 D3 discloses waterborne emulsions comprising an unsaturated polycondensation resin and an oil soluble initiator according to the present application. The emulsion is obtained by mixing and high shear stress technique to produce latexes. The description of D3 does not disclose any acid value for the polycondensation resin. The acid values disclosed in the examples are lower than 3. Hence, novelty of the independent claims 1, 9, 13 and 14 on file is given.

The emulsions are used for the coating of textiles which exhibit improved water resistance, low VOC (different objective problem to be solved).

2.4 D4 discloses water based dispersions comprising an unsaturated polyester copolymer and an organic peroxide initiator. The initiators disclosed in D4 do

EXAMINATION REPORT - SEPARATE SHEET

not correspond to those of the application. The preferred acid value of the polyesters according to D4 is 30-500, pref. 100-300 mg KOH/g. The examples on file deal with resins having an acid value smaller than 100. Hence, novelty is given.

3. Inventive step: Art. 33(3) PCT

D4 is the closest prior art since it also aims at providing waterborne dispersions comprising an unsaturated polyester copolymer and an organic peroxide initiator.

Starting from D4 the skilled person would find no hint to select the initiators on file. D4 would event prevent the skilled person from choosing resins having an acid value smaller than 100 mg KOH/g. Hence, the skilled person starting from D4 would have no motivation to choose an initiator and a polyester according to the present application in order to provide further water based compositions based on an unsaturated polyester copolymer exhibiting good curing properties and low emission of odours.

In addition, the Applicant has shown the improved performance of the compositions of the application as compared to the non water based compositions according to e.g. D2 (see Tables on file).

4. The subject matter of claims 1-14 is industrially applicable.

PATENT COOPERATION TREAT

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Assistant Commissioner for Patents United States Patent and Trademark Office **Box PCT** Washington, D.C.20231 **ETATS-UNIS D'AMERIQUE**

lected Office

Date of mailing (day/month/year) 06 October 2000 (06.10.00)	in its capacity as el
International application No.	Applicant's or agent's file reference
PCT/JP00/01444	00-002-PCT

International filing date (day/month/year) 10 March 2000 (10.03.00)

Priority date (day/month/year) 15 March 1999 (15.03.99)

Applicant

SAKUMA, Tadashi et al

1.	The designated Office is hereby notified of its election made:				
	X in the demand filed with the International Preliminary Examining Authority on:				
	08 September 2000 (08.09.00)				
	in a notice effecting later election filed with the International Bureau on:				
	<u></u>				
2.	The election X was				
	was not				
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).				

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Diana Nissen

Telephone No.: (41-22) 338.83.38

Facsimile No.: (41-22) 740.14.35

			1 '	01/01	00/01444
a. class IPC 7	FICATION OF SUBJECT MATTER C08K5/14	08G63/91	C08F283/0)1 CO8	BF299/04
According t	o International Patent Classification (IPC) or to both natio	nal classification an	d IPC		
	SEARCHED				
Minimum de -IPC 7	ocumentation searched (classification system followed by CO8K CO8G CO8F	y classification symb	ools)		
	tion searched other than minimum documentation to the				
Electronic d	ata base consulted during the international search (name	e of data base and,	where practical, se	arch terms us	sed)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriat	e, of the relevant pa	ssages		Relevant to claim No.
P,X	WO 99 51696 A (BRADLEY CHRI MARTIN (GB); ICI PLC (GB); 14 October 1999 (1999-10-14 Vabstract; claim 1 page 11, line 23 -page 12, examples 1-3	HOWARD DEB	ELTON O)		1-5
A	EP 0 812 878 A (WITCO CORP) 17 December 1997 (1997-12-1 abstract; claim 1	/			1-14
X Funt	ner documents are listed in the continuation of box C.	X	Patent family men	nbers are liste	ed in annex.
° Special ca	tegories of cited documents :	*T* late	document publishe	ed after the in	ntemational filing date
"E" earlier of filling d "L" docume which is citation "O" docume other n "P" docume	nt which may throw doubts on priority claim(s) or is cited to establish the publication date of another or other special reason (as specified) and the publication or other special reason (as specified) and or other special reason (as specified) and or or other special reason (as specified) and or or other special reason (as specified) and or or other special reason (as specified).	or cite inv "X" doce car inv "Y" doce car do me in t	priority date and not ed to understand the ention ument of particular ranot be considered olve an inventive st ument of particular ranot be considered turnent is combined	t in conflict will a principle or relevance; the novel or canner when the relevance; the to involve an it with one or it on being obvi	ith the application but theory underlying the eclaimed invention not be considered to document is taken alone eclaimed invention inventive step when the more other such docunious to a person skilled
Date of the a	actual completion of the international search	Da	te of mailing of the i	nternational s	search report
1:	3 June 2000		03/07/2006	0	
Name and n	nailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL – 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Aut	Dury, 0		

1

	PCI/JP OC	,, 01444
C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		[6]
Category • Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.
US 5 830 928 A (MARTIN ROXALANA L ET AL) 3 November 1998 (1998-11-03) abstract column 5, line 1 - line 28 column 6, line 24 - line 28 column 8, line 5 - line 15 column 10, line 63 -column 11, line 12 column 13, line 39 - line 48; claims 1,6		1-14
US 5 464 885 A (CRAUN GARY P) November 1995 (1995-11-07) column 4, line 64 -column 5, line 3 column 7, line 17 - line 22; claim 1; examples 1,2		1-14
		·
		·
·		•
	·	

1

INTERNATIONAL SEARCH REPORT

ornami on patent family members

	_	
4.	al A	plication No
PC	17JP 0	0/01444

Patent document cited in search repor	t	Publication date	.	Patent family member(s)	Publication date
WO 9951696	Α	14-10-1999	AU	3704899 A	25-10-1999
EP 0812878	Α .	17-12-1997	AU BR CA JP	2483797 A 9703552 A 2207365 A 10060062 A	18-12-1997 10-11-1998 14-12-1997 03-03-1998
US 5830928	Α	03-11-1998	US W0	5972809 A 9730097 A	26-10-1999 21-08-1997
US 5464885	Α	07-11-1995	NONE	- 	

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form PCT/ISA/2	of Transmittal of International Search Report (20) as well as, where applicable, item 5 below.		
00-002-PCT	ACTION	•		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)		
PCT/JP 00/01444	10/03/2000	15/03/1999		
Applicant				
KAO CORPORATION et al.				
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Aut ansmitted to the International Bureau.	hority and is transmitted to the applicant		
This International Search Report consists [X] It is also accompanied by	of a total of sheets. a copy of each prior art document cited in this	s report.		
Basis of the report				
a. With regard to the language, the language in which it was filed, un	international search was carried out on the ba less otherwise indicated under this item.	sis of the international application in the		
the international search v Authority (Rule 23.1(b)).	vas carried out on the basis of a translation of	the international application furnished to this		
	nd/or amino acid sequence disclosed in the in e sequence listing:	nternational application, the international search		
[onal application in written form.			
, ,	ernational application in computer readable for	m.		
furnished subsequently to	o this Authority in written form.			
I	o this Authority in computer readble form.			
international application a	bsequently furnished written sequence listing of as filed has been furnished.			
the statement that the inf furnished	ormation recorded in computer readable form	is identical to the written sequence listing has been		
1 <u>–</u>	und unsearchable (See Box I).			
3. Unity of Invention is lac	cking (see Box II).			
4. With regard to the title ,				
the text is approved as s	ubmitted by the applicant.			
the text has been establi	shed by this Authority to read as follows:			
5. With regard to the abstract,				
the text has been establi	ubmitted by the applicant. shed, according to Rule 38.2(b), by this Author e date of mailing of this international search re	rity as it appears in Box III. The applicant may, eport, submit comments to this Authority.		
	olished with the abstract is Figure No.			
as suggested by the app		X None of the figures.		
because the applicant fa	iled to suggest a figure.			
because this figure better characterizes the invention.				



For r	g Office use only
International Application No.	·
International Filing Date	
Name of receiving Office and	d "PCT International Application"

REQUEST		
-	International Filing Date	
The undersigned requests that the present		
international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office	and "PCT International Application"
	Applicant's or agent's file (if desired) (12 characters ma	
Box No. I TITLE OF INVENTION		
WATER-BASED RESIN COMPOSITI	ON	
Box No. II APPLICANT		
Name and address: (Family name followed by given name: for a designation. The address must include postal code and name of co address indicated in this Box is the applicant's State (that is, country of residence is indicated below.)		This person is also inventor.
		Telephone No.
Kao Corporation		Facsimile No.
14-10, Nihonbashi Kayabacho 1-chome	•	
Chuo-ku, Tokyo 103-8210 Japan		Teleprinter No.
State (that is, country) of nationality: Japan	State (that is, country) of	residence: Japan
This person is applicant all designated for the purposes of:		e United States
Box No. III FURTHER APPLICANT(S) AND/OR (FURT	HER) INVENTOR(S)	
Name and address: (Family name followed by given name; for a designation. The address must include postal code and name of coaddress indicated in this Box is the applicant's State (that is, country of residence is indicated below.)		This person is: applicant only
SAKUMA Tadashi		v applicant and inventor
c/o Kao Corporation, Research Labora	tories,	inventor only (If this check-box
1334, Minato, Wakayama-shi, Wakayama	640-8580 Japan	is marked, do not fill in below.)
State (that is, country) of nationality: Japan	State (that is, country) of	residence: Japan
This person is applicant all designated all designated for the purposes of:		e United States America only the States indicated in the Supplemental Box
V Further applicants and/or (further) inventors are indicated	on a continuation sheet.	
Box No. IV AGENT OR COMMON REPRESENTATIV	E; OR ADDRESS FOR C	CORRESPONDENCE
The person identified below is hereby/has been appointed to act of the applicant(s) before the competent International Authorities	on behalf v a	egent common representative
Name and address: (Family name followed by given name; for designation. The address must include postal	a legal entity, full official code and name of country.)	Telephone No. 06-6910-6733
9583 Patent Attorney HOSODA Yoshino	ri	Facsimite No.
c/o Hosoda International Patent Offi	ce	06-6910-6735
Otemae M2 Bldg., 8-1, Tanimachi 2-ch	ome,	Teleprinter No.
Chuo-ku, Osaka-shi, Osaka 540-0012 J		
Address for correspondence: Mark this check-box where space above is used instead to indicate a special address to	no agent or common repre which correspondence sho	sentative is/has been appointed and the uld be sent.
Form PCT/RO/101 (first sheet) (July 1998; reprint July 1999)	•	See Notes to the request form

Sheet No.

Continuation of Box No. III FULL ER APPLICANT(S) AND/OR (FURTHER) I					
If none of the following sub-boxes is used, this sheet should not be included in the request.					
Name and address: (Family name followed by given name; for a lassignation. The address must include postal code and name of coun address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	egal entity, full official official of residence if no State This person is: applicant only				
KAWABE Kuniyasu	V applicant and inventor				
c/o Kao Corporation, Research Laborato	ories,				
1334, Minato, Wakayama-shi, Wakayama 6	inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality: Japan	State (that is, country) of residence: Japan				
This person is applicant all designated all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a l designation. The address must include postal code and name of cour address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	itry. The country of the				
	applicant and inventor				
	inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality:	State (that is, country) of residence:				
State (Date 13, commy) of nationality.	State (mail is, commy) or restaction.				
This person is applicant all designated all designated for the purposes of:	States except the United States the States indicated in the Supplemental Box				
Name and address: (Family name followed by given name; for a le designation. The address must include postal code and name of coun address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	egal entity, full official try. The country of the of residence if no State This person is: applicant only				
	applicant and inventor				
	inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality:	State (that is, country) of residence:				
This person is applicant all designated all designated for the purposes of: all designated the United States	States except the United States the States indicated in the supplemental Box				
Name and address: (Family name followed by given name; for a le designation. The address must include postal code and name of coun address indicated in this Box is the applicant's State (that is, country) of residence is indicated below.)	irv. The country of the				
	applicant and inventor				
•	inventor only (If this check-box is marked, do not fill in below.)				
State (that is, country) of nationality: State (that is, country) of residence:					
This person is applicant all designated for the purposes of: all designated the United States all designated the United States	States except the United States the States indicated in tes of America only the Supplemental Box				
Further applicants and/or (further) inventors are indicated on another continuation sheet.					

Box No.V DESIGNATION OF STATES					
The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):					
Regional Patent					
ă	AP	ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT			
	EA	Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT			
X	EP	European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT			
	OA	OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinca, GW Guinca-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)			
National Patent (if other kind of protection or treatment desired, specify on dotted line):					
		United Arab Emirates	_		
lπ		Albania			Liberia
		Armenia	님		Lesotho
		Austria			Lithuania
					Luxembourg
		Australia			Latvia
		Azerbaijan			Republic of Moldova
		Bosnia and Herzegovina			Madagascar
		Barbados		MK	The former Yugoslav Republic of Macedonia
		Bulgaria			
📙		Brazil		MN	Mongolia
		Belarus		MW	/ Malawi
🖳		Canada		MX	Mexico
• 🖳		and LI Switzerland and Liechtenstein		МО	Norway
		China		ΝZ	New Zealand
		Cuba		PL	Poland
		Czech Republic		PT	Portugal
l □		Germany		RO	Romania
	DK	Denmark		RU	Russian Federation
	EE	Estonia		SD	Sudan
	ES	Spain		SE	Sweden
	FI	Finland		SG	Singapore
	GB	United Kingdom		SI	Slovenia
	GD	Grenada		SK	Slovakia
	GE	Georgia		SL	Sierra Leone
	GH	Ghana		TJ	Tajikistan
	GM	Gambia		TM	Turkmenistan
	HR	Croatia		TR	Turkey
	HU	Hungary		TT	Trinidad and Tobago
	ID	Indonesia		UA	Ukraine
	IL	Israel		UG	Uganda
	IN	India	X	US	United States of America
	IS	Iccland			
	JP	Japan		UZ	Uzbekistan
	KE	Kenya			Viet Nam
		Kyrgyzstan			
		Democratic People's Republic of Korea	$\overline{\sqcap}$	ZA	South Africa
			\Box		Zimbabwe
	KR	Republic of Korea	Che	ck-bo	exes reserved for designating States which have
		Kazakhstan	the state of the s		
		Saint Lucia			
	LK	Sri Lanka	\Box		
Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other					

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

Sheet No.

Further priority claims are indicated in the Supplemental Box. Box No. VI PRIORITY CLAIM Filing date Where earlier application is: Number of earlier application of carlier application national application: regional application:* international application: (day/month/year) regional Office country receiving Office itcm (1) Patent Application Japan 15.03.99 11-68644 item (2) Patent Application Japan 02.08.99 11-218913 item (3) Patent Application Japan 13.09.99 11-259470 The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of the present international application is the receiving Office) identified above as item(s): * Where the earlier application is an ARIPO application, it is mandatory to indicate in the Supplemental Box at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed (Rule 4.10(b)(ii)). See Supplemental Box. INTERNATIONAL SEARCHING AUTHORITY Box No. VII Request to use results of earlier search; reference to that search (if an earlier Choice of International Searching Authority (ISA) search has been carried out by or requested from the International Searching Authority): (if two or more International Searching Authorities are competent to carry out the international search, indicate Date (day!month'scar) the Authority chosen; the two-letter code may be used): Number Country (or regional Office) ISA / EP Box No. VIII CHECK LIST; LANGUAGE OF FILING This international application contains This international application is accompanied by the item(s) marked below: the following number of sheets: 1. X fee calculation sheet request 2. separate signed power of attorney description (excluding 3. X copy of general power of attorney; reference number, if any: sequence listing part) 70 claims 4. statement explaining lack of signature 5 abstract 5. priority document(s) identified in Box No. VI as item(s): 1 drawings 6. Translation of international application into (language): 0 sequence listing part 7.

scparate indications concerning deposited microorganism or other biological material of description O 8. nucleotide and/or amino acid sequence listing in computer readable form Total number of sheets: 80 9. other (specify): Language of filing of the Figure of the drawings which should accompany the abstract: international application: English Box No. IX SIGNATURE OF APPLICANT OR AGENT Next to each signature, indicate the name of the person signing and the capacity in which the person signs (if such capacity is not obvious from reading the request). HOSODA Yoshinori For receiving Office use only Date of actual receipt of the purported 2. Drawings: international application: Corrected date of actual receipt due to later but received: timely received papers or drawings completing the purported international application: 4. Date of timely receipt of the required corrections under PCT Article 11(2): not received: International Searching Authority ISA Transmittal of search copy delayed (if two or more are competent): until search fee is paid. For International Bureau use only Date of receipt of the record copy by the International Bureau: